PERFORMANCE INDICES

BCWP Cost Efficiency CPI = ACWP

BCWP Schedule Efficiency SPI = **BCWS**

OVERALL STATUS

BCWP CUM **Percent Complete** BAC ACWP CUM **Percent Spent** BAC (or EAC)

TO COMPLETE PERFORMANCE INDEX

$$\frac{\text{TCPI}}{\text{EAC}} = \frac{WORK \text{ REMAINING}}{\text{COST REMAINING}} = \frac{BAC - BCWP \text{ cum}}{EAC - ACWP \text{ cum}}$$

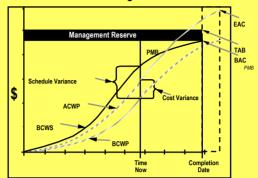
ESTIMATE AT COMPLETION

(EAC = ACWP + Estimate for Remaining Work)

$$\mathsf{EAC}_{\mathit{CPI}} \qquad \qquad = \frac{\mathit{BAC}}{\mathit{CPI}\;\mathit{CUM}}$$

BAC - BCWP CUM EAC Composite = ACWP CUM + (CPI cum) • (SPI cum)

Defense Systems Management College Earned Value Management Gold Card



Cost Variance

Cost Variance %
$$CV \% = \frac{CV}{BCWP}$$

Schedule Variance

Schedule Variance%
$$SV \% = \frac{SV}{BCWS}$$

Variance At Completion

VAC = BAC - EAC

EVM Home Page — http://www.acq.osd.mil/pm/ DSMC EV E-Mail Address — EVM@DSMC.DSM.MIL DSMC EV Phone No. — (703) 805-2848/2968 (DSN 655) Oct 1997

Contract Price TAB Profit /Fees NCC CBB **●** OTB Management Reserve PMB Jndistributed Budget Control Accounts Work Planning Packages Packages

TERMINOLOGY

NCC AUW (Contract price less profit/fee(s)) Authorized Unpriced Work (Work approved, but not yet negotiated) - Contract Budget Base - Over Target Baseline - Total Allocated Budget (Sum of NCC and AUW)
(Sum of CBB and recognized overrun)
(Sum of all budgets for work on CRR OTB contract-NCC,CBB or OTB) (Total budget--for total contract thru any given level) (Contract time-phased budget plan) BAC - Budget At Completion PMB Performance Measurement Management Reserve (Budget withheld by contractor PM for unknowns/risk mgt) UB - Undistributed Budget (Broadly defined activities not yet distributed to CAs)
(Lowest CWBS element assigned to a single focal point to plan and control the scope/sched/budget)
(Near-term, detail-planned activities
within a CA) WP - Work Package (Far-term CA activities not yet defined - Planning Package into WPs)
(Est. of total cost--for total contract thru any given level)
-- PLAN BCWS - Budgeted Cost of Work Scheduled (Value of work planned to be done)
-- EARNED VALUE - Budgeted Cost of Work Performed (Value of work accomplished)
- ACTUAL COST ACWP - Actual Cost of Work Performed

EVM POLICY (as defined in DOD 5000.2-R)

EVMS Criteria Approach (Management control system <u>must</u> meet Criteria):

- Required for non-FFP contract exceeding \$70M RDT&E or \$300M in procurement (CY96\$).
- Below-threshold use may be appropriate—consider benefits, risk and criticality
- Contractor must establish, maintain, and use a system that meets the intent of the 32 Criteria.
 Cost Performance Report (CPR) is delivered as a CDRL item.
- 5 Formats (WBS, Organization, Baseline, Staffing, and Explanations).

C/SSR Approach (Management control system not required to meet Criteria):

- Required for non-FFP contract exceeding \$6M (CY96\$) and 12 months in length.
- Contractor system with reasonably objective earned value methods is adequate.
 Cost/Schedule Status Report (C/SSR) is delivered as a CDRL item.

 - 2 Formats (WBS and Explanations)